

environment is controlled to provide an anaerobic time period for achieving phosphorous release and denitrification of oxidized nitrogen in the vessel throughout the mix fill phase; followed by a react fill phase having a predetermined duration in which continuous waste water flow into the vessel continues and the waste water is exposed to intermittent aeration and continuous mixing to promote completely mixed aerobic and anoxic conditions;

followed by a react discharge phase having a predetermined duration in which there is no waste water flow into the vessel, the waste water is continuously exposed to alternating periods of aerobic and anoxic conditions, and during this exposure to alternating periods of aerobic and anoxic conditions the waste water is continuously directed to a membrane device to separate suspended solids from the liquid in the waste water.

2. (Not Amended) The process of claim 8 wherein the mix fill phase is completed in about 15 minutes.

3. (Once Amended) The process of claim 8 wherein the react fill phase begins with continuous mixing and intermittent aeration and is completed in about 45 minutes.

4. (Once Amended) The process of claim 8 wherein the react discharge phase begins with the cessation of waste water flow into the vessel and is completed in about 60 minutes.